



DRIVE

Discovery, Research, InnoVation and Education

**Friday, April 23 &
Saturday, April 24, 2021**

**Virtual
Pheedloop**



**ALBERTA PRECISION
LABORATORIES**

Leaders in Laboratory Medicine

Friday, April 23

PRE-RECORDED POSTER PRESENTATIONS

Format: virtual poster presentations will be available on demand as pre-recorded 3-5 minute videos. The videos are available for viewing on Apr 23 from 0800-1500h and Apr 24 from 0800-1300h. Presenters have been asked to be available in the live chat associated with their video Apr 23 1000-1100h and Apr 24 1200-1300h to answer any questions from viewers and judges.

Name	Title
Teresa Kumblathan	An Improved Method for Convenient and Sensitive Detection of SARS-CoV-2 in Saliva and Gargle Samples
Alisa Abozina	Solid-Basaloid Variant of Adenoid Cystic Carcinoma of the Breast: Report of two cases and literature review
Yasmine Rais	Discovery of Prostate Cancer Biomarkers by Immunoaffinity Proteomics
Delaram Dara	Evaluation of Human Endogenous Retrovirus Proteins as Cancer Biomarkers by Immunoaffinity-Mass Spectrometry
Taryn Stokowski	The selective detection of intact <i>shiga toxin-producing Escherichia coli</i> (STEC) cells using an optimized viability PCR (vPCR) protocol
Amy Boucher	Determining the cell-mediated immune response for women with low antibody titers to rubella virus in the Alberta population
Leah Marquez-Curtis	Cryopreservation and post-thaw characterization of an important cell type in the blood-brain barrier
Ruwandi Kariyawasam	One of: COVID-19 Associated Pulmonary Aspergillosis (CAPA) in Critically Ill Patients: A Systematic Review of Cohort Studies or Case Report: <i>Actinotignum schaalii</i> identified in a neck abscess of a pediatric patient
Jiaojiao Xie	Comparative cytotoxicity of DBPs on a normal human cell line SV-HUC-1 to CHO-K1 cell line
Janet Zhou	Selenide increases biliary excretion of arsenic from human HepaRG cells
Karen Hoy	Northern Alberta Wildfires: Comparing Arsenic Species in Freshwater Fish Before and After
Wei (Claire) Feng	One-pot isothermal detection of SARS-CoV-2 RNA using recombinase polymerase amplification and CRISPR technology
Jeffrey Tao	Development of a Telomerase-initiated DNzyme Walker for the Detection of Cancer Cells
Yasser Abuetahb	Regulation of UBE4B and its Role in Response to DNA Damage in Cancer.
Alexa Thompson	Estimating the cost-effectiveness of universal prenatal Hepatitis C (HCV) screening in Canada
Wenhui Li	A small-scale biotinylation method for red blood cells.
JingYang Xu	Extraction and concentration viral RNA from saliva and gargle using poly-T magnetic beads for SARS CoV-2 detection
Amir Hossein Hosseini Akbarnejad	Development of an AI-based Predictor of OncotypeDx Recurrence Score in Luminal-A and B breast cancer patients.
Nicholas Wawryk	Sweetened Tap Water Increases Disinfection Byproduct: 2,6-dichlorobenzoquinone
Huyan Xiao	A CRISPR/Cas12a-mediated colorimetric assay for SARS-CoV-2
Qian Wang	Initial Assessment of Malutilization of Iron Status Testing in Ottawa, Canada and Recommendations for Improved Utilization
Junlang Qiu	Nontargeted Identification of a N-heterocyclic Compound in Source Water and Wastewater as a Precursor of Multiple Nitrosamines
Sophia Peng	Acute myeloid leukemia with mutated NPM1 and Charcot-Leyden crystals: a case series.
Danielle Meunier	Genomic classification of relapsed and refractory acute myeloid leukemia.
Ifueko Adeghe	Performance of the Abbott ID NOW Among Symptomatic Individuals with Confirmed COVID-19.
Parth Patel	Investigating Granulocyte Cryopreservation through Bulk Droplet Vitrification (BDV)

Allison De Guzman	Socio-demographic, personal beliefs, fear of COVID-19, and perception of face masks correlates to adherence to mask handling recommendations in university students
Brianna Grad	Taking hydrogen breath testing to the next level: improving diagnosis of small intestinal bacterial overgrowth syndrome and carbohydrate intolerance
Vivian Le	Rapid identification of NDM-, KPC-, IMP-, VIM-type and OXA-48-like carbapenemase-producing organisms by a multiplex lateral flow immunoassay (NG-Test Carba 5)
Rebekah Rashke	Analytical validation of the DELFIA Xpress placental growth factor (PlGF 1-2-3) assay in maternal serum
Gabrielle Chrysanta	Transfusion indication completion in RBC orders of chronic transfusion recipients (CTR)
Pavel Roman	Disseminating Information About LabWisely on Wasteful Clinical Laboratory Practices to Medical Laboratory Professionals by Podcast
Ashley-Nicole Bailey	Evaluation of commercial assays for the detection of vaccine-induced SARS-CoV-2 IgG and neutralizing antibodies in sera.
Caitlyn Rossing	Escherichia coli O157:H7 prevalence in raw ground bison meat in Edmonton, Alberta, Canada
Chia-Hsun Yeh	Method Evaluation of the Siemens IgG Subclass Assay
Lucia Byron	Verification of Alberta-wide and CSCC derived Canada-wide adult reference ranges for 19 chemistry assays
Kevin Hwang	How far and how long can you go?
Deeanna Saran	Changes in Antimicrobial Resistance (AMR) and Serotype Distribution of Invasive <i>Streptococcus pyogenes</i> and <i>Streptococcus pneumoniae</i> in Alberta from 2009 to 2019
Daisy Xu	Improving the Quality of Cryopreserved Red Cells from Sickle Cell Patients
Christabel Opore	Verification of the Siemens and Diazyme Serum Free Light Chain assays on the Siemens Atellica Analyzer

11:00-12:00

KEYNOTE SPEAKER

Dr. John W. Macgregor Memorial Lecture
 Title: Diagnostics in a Post-COVID Age
 Speaker: Dr. Samuel Sia, Ph.D.
 Professor of Biomedical Engineering,
 Columbia University

HLA WORKSHOP

12:30-1:30

Transplant from the Patient Perspective
Speaker: Amy Silverstein

1:30-3:00

National Round Table:
 Group discussions related to technical and operational issues in the HLA laboratory

Saturday, April 24

Session 1: 8:00 – 8:50

Dr. Russ Greiner

Towards Patient-Specific Treatment:
Medical Applications of Machine Learning

Dr. Natalie Marshall

Tailoring Public Health & Laboratory
Diagnostics to Create an Evidence Based
Response to Diphtheria

AP Year in Review

Dr. Mara Rendi

Serous Neoplasia of the Ovary

Session 2: 9:00 – 9:50

Dr. Michelle Geddes

Trends in Hematopoietic
Cell Transplantation

Pauline Tomlin

The Souvenirs You Did NOT Buy!!
Parasitology Cases

Dr. Paul Riley

Stago Diagnostics Ltd.
Hemostasis Testing in Patients
with Covid 19

AP Year in Review

Dr. Mara Rendi

Endometrial Carcinoma: Grading,
Staging, Lynch Testing, Mimics &
Subtypes

Session 3: 10:00 – 10:50

Cary Shandro

Mycobacterium Chimaera

Graduate Session

Steven Kuntz

Plagiarism

AP Year in Review Dr. Justin

Bateman

Molecular Biomarkers in Colorectal Cancer:
An Overview and Update

11:00 – 12:00

KEYNOTE SPEAKER

Dr. R. E. Bell Memorial Lecture

Title: To Do Well, You Must Be Well: Staying Sane & Surviving BS in the Age of COVID

Speaker: Dr. Peter Brindley, MD FRCPC FRCP (edin) FRCP (lond)

Professor of Critical Care Medicine, Medical Ethics, Anesthesiology Attending Physician, Critical Care Medicine

Director, Neurosciences ICU, University of Alberta Hospital

Break: 12:00 – 12:59

Session 4: 1:00 – 1:50

Dr. Kinga Kowalewska-Grochowska

Coyotes in your Backyard:
An Emerging Parasite in Alberta

Graduate Session

Lisa Purdy

The pandemic is ending? Now what do I do to
take care of myself while I get my graduate
program back on track?

AP Year in Review

Dr. Krista Watson

COVID Autopsies :
The Edmonton Experience

Session 5: 2:00 – 2:50

Graduate Session

Steven Kuntz

Paraphrasing

AP Year in Review

Dr. Mara Rendi

Talk-Back Session:
Experiences in Teaching,
Pathology, and Beyond

AWARDS ANNOUNCEMENT

3:00-3:15

Please join us at the end of the event for the
announcement of awards for poster presentations and graduate students.